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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/990,324	11/23/2001	Jun Hasegawa	216535US2S	2640
22850	7590 01/24/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			TRAN, KHAI	
	1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
	,		2637	

DATE MAILED: 01/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/990,324	HASEGAWA, JUN				
Office Action Summary	Examiner	Art Unit				
	KHAI TRAN	2637				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 23 November 2001.						
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) <u>1-32</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-6,8-22,24-28 and 30-32</u> is/are allowed.						
· <u> </u>	Claim(s) is/are rejected.					
	Claim(s) 7,23 and 29 is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior application from the International Bureau	ity documents have been receive					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
2) Notice of Drattsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/23/01;9/15/04. 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

Claim Objections

1. Claims 7, 23, 29 are objected to because of the following informalities: Appropriate correction is required.

Regarding claim 7, line 3, the term "the specified threshold value" should be changed to --a specified threshold value--, otherwise, in line 2, the term "claim 2" should be changed to --claim 6--.

Regarding claim 23, lines 2-3, the term "the specified threshold value" should be changed to --a specified threshold value--, otherwise, in line 2, the term "claim 18" should be changed to --claim 22--.

Regarding claim 29, lines 2-3, the term "the specified threshold value" should be changed to --a specified threshold value--, otherwise, in line 2, the term "claim 19" should be changed to --claim 28--.

Allowable Subject Matter

- 2. Claims 1-6, 8-22, 24-28, 30-32 are allowed.
- 3. The following is a statement of reasons for the indication of allowable subject matter: none of the prior art of the record discloses or suggests a code synchronous determining method and apparatus, comprising: scanning the stored correlation values in a given direction to detect at least one minimal correlation valued to register a retrieved minimal timing corresponding to the detection minimal correlation value; extracting at least one correlation value selected from the correlation values stored at

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plural timings having a specified time interval from the maximal timing to the minimal timing as a high correlation value candidate as recited in claims 1-17; steps of comparing each correlation value stored in the forward and back directions from the maximal timing with a predetermined value; registering a timing when the associated correlation value is detected to be lass than a minimum correlation valued as the minimal timing; extracting at least one high correction value from the correlation values obtained in the every specified time interval from maximal timing till the minimal timing; and registering a timing data corresponding to the extracted high correlation value as candidate timing data for code synchronism as recited in claim 15; a code synchronous determining device configured to determine plural code synchronous timing candidates by reading the correlation values stored in the storage device, the code synchronous timing determining device including a time width designating unit configured to designate a limit number of correlation values data of the correlation values stored in the storage device, and candidate extracting unit configured to extract high correlation values as code synchronous timing candidates from the limit number of correlation values designated by the time width designating unit as recited in claim 31; and the scanning element including: a holding circuit having a number of data holding stages configured to hold timing information at the plural timings in a time sequence order acquired in relation to the correlation values, the number of the data holding stages being defined to correspond to a limit number of correlation valued data of the correlation values stored in the storage circuit; registering circuit configured to retrieve a timing corresponding to a correlation value having at least one maximal value from the

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information at the plural timings held in the holding circuit; to register the timings as minimal timing; and candidate extracting unit configured to extract high correlation values as code synchronous timing candidate from the limit number of correlation values held in the holding circuit as recited claim 32.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shou et at (U.S. Pat. 5,974,038) disclose a receiver for CDMA communication system.

Sato (U.S. Pat. 6,188,679) discloses a CDMA chip synchronization circuit.

Zhou et al (U.S. Pat. 6,252,899) disclose a complex despreading system.

5. This application is in condition for allowance except for the following formal matters as indicated above.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (571) 272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Khai Tran Patent Examiner

21 January, 2005